SEQUENCE LISTING

110> Boldog, Ferenc L.; Burgess, Catherine E.; Fernandes, Elma; Ioime, Noelle ; Jeffers, Michael E.; LaRochelle, William J.; Lichenstein, Henri; Prayaga, Sudhirdas; Rittman, Beth; Shimkets, Richard A.; Shimkets, Juliette B; Yang, Meijia <120> Treatment of Inflammatory Bowel Disease Using Growth Factors <130> 15966-557A (Cura 57A) <140> 09/992840 <141> 2001-11-06 <150> 60/246206 <151> 2000-11-06 <160> 28 <170> CuraSeqList ver. 0.1 <210> 1 <211> 633 <212> DNA <213> Homo sapiens <400> 1 atggctccct tagccgaagt cgggggcttt ctgggcggcc tggagggctt gggccagcag 60 gtgggttcgc atttcctgtt gcctcctgcc ggggagcggc cgccgctgct gggcgagcgc 120 aggagegegg eggageggag egegeggge gggeeggggg etgegeaget ggegeaeetg 180 cacggcatec tgegeegeeg geagetetat tgeegeaceg getteeacet geagateetg 240 cccgacggca gcgtgcaggg cacccggcag gaccacagcc tcttcggtat cttggaattc 300 atcagtgtgg cagtgggact ggtcagtatt agaggtgtgg acagtggtct ctatcttgga 360 atgaatgaca aaggagaact ctatggatca gagaaactta cttccgaatg catctttagg 420 gagcagtttg aagagaactg gtataacacc tattcatcta acatatataa acatggagac 480 actggccgca ggtattttgt ggcacttaac aaagacggaa ctccaagaga tggcgccagg 540 tccaagaggc atcagaaatt tacacatttc ttacctagac cagtggatcc agaaagagtt 600 ccagaattgt acaaggacct actgatgtac act 633

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Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly Ile Leu 50 55 60

Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu 65 70 75 80

Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly
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Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly
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Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Tyr 115 120 125

Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu 130 135 140

Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His Gly Asp 145 150 155 160

Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg 165 170 175

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- Leu Tyr Arg Arg Asp Glu Thr Ile Gln Val Lys Gly Asn Gly Tyr Val
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- Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Thr
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- Trp Arg Leu His Ser Gln Glu Asn Thr Arg Ile Gln Leu Val Phe Asp
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- Asn Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 110
- Phe Val Glu Val Glu Asp Ile Ser Glu Thr Ser Thr Ile Ile Arg Gly
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- Arg Trp Cys Gly His Lys Glu Val Pro Pro Arg Ile Lys Ser Arg Thr 130 135 140
- Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys 145 150 155 160
- Pro Gly Phe Lys Ile Tyr Tyr Ser Leu Leu Glu Asp Phe Gln Pro Ala 165 170 175
- Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Ile Ser Gly
 180 185 190
- Val Ser Tyr Asn Ser Pro Ser Val Thr Asp Pro Thr Leu Ile Ala Asp 195 200 205
- Ala Leu Asp Lys Lys Ile Ala Glu Phe Asp Thr Val Glu Asp Leu Leu 210 215 220
- Lys Tyr Phe Asn Pro Glu Ser Trp Gln Glu Asp Leu Glu Asn Met Tyr 225 230 235 240
- Leu Asp Thr Pro Arg Tyr Arg Gly Arg Ser Tyr His Asp Arg Lys Ser 245 250 255

Lys Val Asp Leu Asp Arg Leu Asn Asp Asp Ala Lys Arg Tyr Ser Cys 260 265 270

Thr Pro Arg Asn Tyr Ser Val Asn Ile Arg Glu Glu Leu Lys Leu Ala 275 280 285

Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys Gly Gly 290 295 300

Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys Asn Ser 305 310 315 320

Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu Pro Gly 325 330 335

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Leu Ala Asn Val Val Phe Phe Pro Arg Cys Leu Leu Val Gln Arg Cys
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Gly Gly Asn Cys Gly Cys Gly Thr Val Asn Trp Arg Ser Cys Thr Cys 65 70 75 80

Asn Ser Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Gln Phe Glu 85 90 95

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Gly Lys Thr Val Lys Lys Tyr His Glu Val Leu Lys Phe Glu Pro Gly 325 330 335

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Gln Ser Pro Arg Phe Pro Asn Ser Tyr Pro Arg Asn Leu Leu Thr
65 70 75 80

Trp Trp Leu Arg Ser Gln Glu Lys Thr Arg Ile Gln Leu Ser Phe Asp
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His Gln Phe Gly Leu Glu Glu Ala Glu Asn Asp Ile Cys Arg Tyr Asp 100 105 110

Phe Val Glu Val Glu Glu Val Ser Glu Ser Ser Thr Val Val Arg Gly
115 120 125

Arg Trp Cys Gly His Lys Glu Ile Pro Pro Arg Ile Thr Ser Arg Thr 130 135 140

Asn Gln Ile Lys Ile Thr Phe Lys Ser Asp Asp Tyr Phe Val Ala Lys 145 150 155 160

Pro Gly Phe Lys Ile Tyr Tyr Ser Phe Val Glu Asp Phe Gln Pro Glu 165 170 175

Ala Ala Ser Glu Thr Asn Trp Glu Ser Val Thr Ser Ser Phe Ser Gly
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Val Ser Tyr His Ser Pro Ser Ile Thr Asp Pro Thr Leu Thr Ala Asp 195 200 205

Ala Leu Asp Lys Thr Val Ala Glu Phe Asp Thr Val Glu Asp Leu Leu 210 225 220

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Leu Leu Val Gln Arg Cys Gly Gly Asn Cys Gly Cys Gly Thr Val Asn 85 90 95

Trp Arg Ser Cys Thr Cys Asn Ser Gly Lys Thr Val Lys Lys Tyr His $100 \,$ $105 \,$ $110 \,$

Glu Val Leu Gln Phe Glu Pro Gly His Ile Lys Arg Arg Gly Arg Ala 115 120 125

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